## ABSTRACT OF THE DISCLOSURE

A silicon carbide n channel MOS semiconductor device is provided which includes a silicon carbide substrate including a p base region, an n<sup>+</sup> source region and an n<sup>+</sup> drain region, a gate insulating film formed on a surface of the p base region, a gate electrode provided on the gate insulating film, and first and second main electrodes that allow current to flow therebetween, wherein a p channel region is formed in a surface layer of the p base region right under the gate insulating film, such that the effective acceptor concentration measured in the vicinity of an interface between the p base region and the gate insulating film is in a range of 1 x 10<sup>13</sup> to 1 x 10<sup>16</sup> cm<sup>-3</sup>. A method for manufacturing such a MOS semiconductor device is also provided in which the p channel region is formed by conducting multiple ion implantation in which the amount of ions to be implanted is reduced in the vicinity of the surface of the p base region, or implanting ions of donor impurities into a surface layer of the p base region, or forming a low-concentration layer by epitaxial growth as a surface layer of the p base region.

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